

Table 6 - Project Budget

Proposal Title: Rohner Creek Flood Control and Riparian Habitat Improvement Project

Project Title: Rohner Creek Flood Control and Riparian Habitat Improvement Project

		(a)	(b)	(c)	(d)	(e)
Budget Category		Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$24,600	\$12,140	\$0	\$36,740	67%
(b)	Land Purchase/Easement	\$145,180	\$45,180	\$0	\$190,360	76%
(c)	Planning/Design/Engineering/ Environmental Documentation	\$247,932	\$247,932	\$0	\$495,864	50%
(d)	Construction/Implementation	\$2,391,120	\$2,391,120	\$0	\$4,782,240	50%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$23,310	\$23,310	\$0	\$46,620	50%
(f)	Construction Administration	\$79,220	\$79,220	\$0	\$158,440	50%
(g)	Other Costs	\$0	\$0	\$0	\$0	0%
(h)	Construction/Implementation Contingency	\$595,750	\$595,750	\$0	\$1,191,500	50%
(i)	Grand Total (Sum rows (a) through (h) for each column)	\$3,507,112	\$3,394,652	\$0	\$6,901,764	51%

*In 2007 the City authorized the sale of \$17.5 million in revenue bonds to support Redevelopment Area projects. Of the total, \$8 million is allocated for Redevelopment Area stormwater projects. The City has spent less than \$500,000 to date. The Rohner Creek Flood Control Project was identified as a top priority in the Redevelopment Plan. The City committed \$4 million of the Redevelopment Revenue Bonds to the Rohner Creek Flood Control and Riparian Habitat Improvement Project in the FY 2010-2011 Capital Improvement Plan. The Non-State match will be provided from the City's redevelopment funds. These funds are not subject to potential retraction from the State as they are secured as revenue bonds with promissory notes to bond holders who have secured the debt.

Table 7 - Summary Budget

Proposal Title: Rohner Creek Flood Control and Riparian Habitat Improvement Project

Individual Project Title		Non-State Share (Funding Match)	Requested Grant Funding (DWR Grant Amount)	Other State Funds Being Used	Total	% Funding Match
		Grand Total (Sum rows (a) through (h) for each column in Table 6)	Grand Total (Sum rows (a) through (h) for each column in Table 6)	Grand Total (Sum rows (a) through (h) for each column in Table 6)	Grand Total (Sum rows (a) through (h) for each column in Table 6)	
(a)	Project A	\$3,507,112	\$3,394,652		\$6,901,764	51%
(b)	Project B				\$0	0%
(c)	Project C				\$0	0%
(d)	Project D				\$0	0%
(e)	Project E				\$0	0%
(f)	Project F				\$0	0%
(g)	Project G				\$0	0%
(i)	Grand Total (Sum rows (a) through (h) for each column)	\$3,507,112	\$3,394,652	\$0	\$6,901,764	51%

Proposal Title: Rohner Creek Flood Control and Riparian Habitat Improvement Project**(a) Direct Project Administration Costs**

	Number of Hours	Hourly Wage*	Contingency Amounts	Total Cost
<u>Task 1: Administration</u>				
City Public Works Director	40	\$ 75		\$ 3,000
City Public Works Staff	40	\$ 40		\$ 1,600
Public Works Admin	60	\$ 30		\$ 1,800
Project Engineer	80	\$ 120		\$ 9,600
Staff Scientist	80	\$ 90		\$ 7,200
Clerical Staff	20	\$ 70		\$ 1,400
<i>Sub-Total</i>				\$ 24,600
<u>Task 2: Labor Compliance Program</u>				
RCAA Labor Compliance Officer	100	\$ 75		\$ 7,500
RCAA Support Staff	60	\$ 45		\$ 2,700
<i>Sub-Total</i>				\$ 10,200
<u>Task 3: Project Performance Plan</u>				
City Public Works Director	20	\$ 75		\$ 1,500
City Public Works Staff	8	\$ 40		\$ 320
Public Works Admin	4	\$ 30		\$ 120
Project Engineer	20	\$ 120		\$ 2,400
<i>Sub-Total</i>				\$ 1,940
TOTAL				\$ 36,740

* Hourly wage includes fringe and benefits

Proposal Title: Rohner Creek Flood Control and Riparian Habitat Improvement Project**(b) Land Purchase/Easement**

	Number of Hours	Hourly Wage*	Contingency Amounts**	Total Cost
<u>Task 4: Develop Land Easements and Rights of Way</u>				
City Public Works Director	40	\$ 75		\$ 3,000
City Public Works Staff	40	\$ 40		\$ 1,600
Public Works Admin	10	\$ 30		\$ 300
City Attorney	80	\$ 150		\$ 12,000
Land Attorney	80	\$ 250		\$ 20,000
Project Engineer	80	\$ 120		\$ 9,600
Senior Engineer	60	\$ 140		\$ 8,400
Appraiser	120	\$ 125		\$ 15,000
Review Appraisals	-	-		\$ 10,000
Title Reports	-	-		\$ 1,500
Survey Chief	12	\$ 130		\$ 1,560
Survey Crew	24	\$ 100		\$ 2,400
Easement Recording Fees				\$ 5,000
Right of Way Purchase			\$ 100,000	\$ 100,000
TOTAL				\$ 190,360

* Hourly wage includes fringe and benefits

** Contingency was estimated based on potential for needed right of way to be purchased. If this contingency is needed it will be covered by the City above the 50% required funding match.

Proposal Title: Rohner Creek Flood Control and Riparian Habitat Improvement Project**(c) Planning/Design/Engineering/ Environmental Documentation**

	Number of Hours	Hourly Wage*	Contingency Amounts**	Total Cost
<u>Task 5: Preliminary Hydrologic and Hydraulic Model Development and Analysis</u>				
Senior Engineer	60	\$ 140		\$ 8,400
Project Engineer	214	\$ 120		\$ 25,680
Drafting	60	\$ 100		\$ 6,000
Clerical Support	8	\$ 70		\$ 560
<i>Sub-Total</i>				\$ 40,640
<u>Task 6: Final Hydrologic and Hydraulic Model Development</u>				
Senior Engineer	75	\$ 140		\$ 10,500
Project Engineer	200	\$ 120		\$ 24,000
Drafting	35	\$ 100		\$ 3,500
Clerical Support	6	\$ 70		\$ 420
Flow Monitoring				
Gaging Equipment	-	-		\$ 2,564
Hydrologist	80	\$ 100		\$ 8,000
Field Staff	50	\$ 50		\$ 2,500
Aerial Survey	-	-		\$ 31,000
<i>Sub-Total</i>				\$ 82,484
<u>Task 7: Selection of Apparent Best Alternative</u>				
Senior Engineer	40	\$ 145		\$ 5,800
Project Engineer	120	\$ 120		\$ 14,400
Drafting	24	\$ 100		\$ 2,400
Clerical Support	12	\$ 70		\$ 840
Senior Scientist	20	\$ 120		\$ 2,400
<i>Sub-Total</i>				\$ 25,840
<u>Task 8: Environmental Constraints Analysis</u>				
Project Engineer	40	\$ 120		\$ 4,800
Senior Scientist	60	\$ 120		\$ 7,200
Staff Scientist	120	\$ 90		\$ 10,800
Drafting	20	\$ 80		\$ 1,600
Clerical	4	\$ 70		\$ 280
<i>Sub-Total</i>				\$ 24,680
<u>Task 9: Preliminary Design</u>				
Senior Engineer	60	\$ 145		\$ 8,700
Civil Engineer	120	\$ 120		\$ 14,400
Structural Engineer	80	\$ 125		\$ 10,000
Senior Scientist	20	\$ 120		\$ 2,400
Drafting	200	\$ 80		\$ 16,000
Clerical	12	\$ 55		\$ 660
Survey Chief	60	\$ 130		\$ 7,800
Survey Crew	200	\$ 100		\$ 20,000

Proposal Title: Rohner Creek Flood Control and Riparian Habitat Improvement Project**(c) Planning/Design/Engineering/ Environmental Documentation**

	Number of Hours	Hourly Wage*	Contingency Amounts**	Total Cost
Geotechnical Engineer	120	\$ 130		\$ 15,600
Geologist	120	\$ 90		\$ 10,800
Soil Borings	-	-		\$ 14,000
Sub-Total				\$ 106,360
<u>Task 10: Final Design</u>				
Senior Engineer	120	\$ 145		\$ 17,400
Civil Engineer	400	\$ 120		\$ 48,000
Structural Engineer	120	\$ 125		\$ 15,000
Senior Scientist	80	\$ 120		\$ 9,600
Drafting	480	\$ 80		\$ 38,400
Clerical	16	\$ 55		\$ 880
Survey Chief	8	\$ 130		\$ 1,040
Survey Crew	16	\$ 100		\$ 1,600
Geotechnical Engineer	16	\$ 130		\$ 2,080
Geologist	8	\$ 90		\$ 720
Sub-Total				\$ 134,000
<u>Task 11: Environmental Documentation</u>				
Senior Engineer	40	\$ 145		\$ 5,800
Project Engineer	100	\$ 120		\$ 12,000
Senior Scientist	40	\$ 120		\$ 4,800
Staff Scientist	140	\$ 90		\$ 12,600
Drafting	40	\$ 80		\$ 3,200
Clerical	20	\$ 70		\$ 1,400
Cultural Resource Specialist	40	\$ 100		\$ 4,000
Survey Party Chief	20	\$ 130		\$ 2,600
Survey Field Staff	40	\$ 100		\$ 4,000
Sub-Total				\$ 50,400
<u>Task 12: Permitting</u>				
DFG 1600				
Project Engineer	10	\$ 120		\$ 1,200
Senior Scientist	30	\$ 120		\$ 3,600
Staff Scientist	40	\$ 90		\$ 3,600
Clerical	8	\$ 70		\$ 560
ACOE 404				
Project Engineer	20	\$ 120		\$ 2,400
Senior Scientist	40	\$ 120		\$ 4,800
Staff Scientist	60	\$ 90		\$ 5,400
Clerical	10	\$ 70		\$ 700
RWQCB Section 401				
Project Engineer	12	\$ 120		\$ 1,440
Senior Scientist	30	\$ 120		\$ 3,600

Proposal Title: Rohner Creek Flood Control and Riparian Habitat Improvement Project

(c) Planning/Design/Engineering/ Environmental Documentation

	Number of Hours	Hourly Wage*	Contingency Amounts**	Total Cost
Staff Scientist	40	\$ 90		\$ 3,600
Clerical	8	\$ 70		\$ 560
<i>Sub-Total</i>				<i>\$ 31,460</i>
TOTAL				\$ 495,864

* Hourly wage includes fringe and benefits

** Contingency was estimated based on potential for needed right of way to be purchased.

Proposal Title: Rohner Creek Flood Control and Riparian Habitat Improvement Project**(d) Construction/Implementation**

	Number of Hours	Hourly Wage*	Contingency Amounts	Total Cost
<u>Task 13: Construction Contracting</u>				
City Public Works Director	8	\$ 75		\$ 600
City Public Works Staff	8	\$ 40		\$ 320
Public Works Admin	8	\$ 30		\$ 240
Senior Engineer	32	\$ 145		\$ 4,640
Project Engineer	60	\$ 120		\$ 7,200
Drafting	24	\$ 100		\$ 2,400
Clerical Support	12	\$ 70		\$ 840
Adverstising	-	-		\$ 500
<i>Sub-Total</i>				\$ 16,240
<u>Task 14: Construction</u>				
<i>(Detailed cost provided on Separate Sheet)</i>				4766000
<i>Sub-Total</i>				\$ 10,100
TOTAL				\$ 26,340

* Hourly wage includes fringe and benefits

Proposal Title: Rohner Creek Flood Control and Riparian Habitat Improvement Project

(d) Construction/Implementation (Cost Support

(h) Construction/Implementation Contingency (Cost Support)

<i>Item No</i>	<i>Item Description</i>	<i>Quantity</i>	<i>Unit</i>	<i>Unit Cost</i>	<i>Total</i>
1	Traffic Control	1	LS	\$35,000	\$35,000
2	Construction Staking	1	LS	\$30,000	\$30,000
3	Control of Water	1	LS	\$40,000	\$40,000
4	Fish Relocation	1	LS	\$15,000	\$15,000
5	Erosion/Sediment Control (SWPPP)	1	LS	\$44,000	\$44,000
6	Re-Vegetation and Riparian Enhancement	1	LS	\$22,000	\$22,000
7	Restoration of Property	1	LS	\$10,000	\$10,000
8	Instream Habitat Enhancement	1	LS	\$185,000	\$185,000
9	Demolition of Existing Facilities	1	LS	\$65,000	\$65,000
10	Relocation of Existing Utilities	1	LS	\$56,000	\$56,000
11	Clearing & Grubbing	1	LS	\$30,000	\$30,000
12	Temporary Shoring and Trench Safety	1	LS	\$25,000	\$25,000
13	Channel Grading and Excavation	1	LS	\$30,000	\$30,000
14	Concrete Structures (Floodwall)	380	CY	\$1,000	\$380,000
15	Concrete Structures (Intake Structure for Bypass)	50	CY	\$1,200	\$60,000
16	Reinforced Concrete Box Culvert (4' x 8') (Under Open Country)	2600	LF	\$500	\$1,300,000
17	Reinforced Concrete Box Culvert (4' x 8') (Under 12th St.)	700	LF	\$700	\$490,000
18	Concrete Outlet Structure at 12th St.	1	LS	\$60,000	\$60,000
19	Grade Controls Downstream of 12th St. Crossing	1	LS	\$30,000	\$30,000
20	Rock Slope Protection	7000	Ton	\$170	\$1,190,000
21	New Bridge Placement	4	EA	\$60,000	\$240,000
22	Structural Backfill	5000	CY	\$50	\$250,000
23	Clean Gravel Backfill	400	CY	\$35	\$14,000
24	Mobilization and Demobilization	1	LS	\$200,000	\$200,000
				Subtotal:	\$4,766,000

Estimating Contingency @ 25%: \$1,191,500

OPINION OF PROBABLE CONSTRUCTION COST : \$5,958,000

Estimating contingency accounts for volatility in bidding climate during the bid period and unknown permit conditions from resource agencies

Proposal Title: Rohner Creek Flood Control and Riparian Habitat Improvement Project**(e) Environmental Compliance/ Mitigation/Enhancement**

	Number of Hours	Hourly Wage*	Contingency Amounts	Total Cost
<u>Task 15: Revegetation Planting and Monitoring Plan</u>				
Senior Scientist	60	\$ 120		\$ 7,200
Staff Scientist	140	\$ 90		\$ 12,600
Staff geologist	50	\$ 90		\$ 4,500
Project Engineer	60	\$ 120		\$ 7,200
Clerical Support	8	\$ 70		\$ 560
(Materials costs included in construction cost)				
<i>Sub-Total</i>				<i>\$ 32,060</i>
<u>Task 16: Stormwater Pollution Prevention Plan (SWPPP) Implementation</u>				
Senior Engineer	8	\$ 145		\$ 1,160
Qualified SWPPP Developer	40	\$ 140		\$ 5,600
Qualified SWPPP Practitioner	40	\$ 120		\$ 4,800
Resident Project Representative	20	\$ 150		\$ 3,000
<i>Sub-Total</i>				<i>\$ 14,560</i>
TOTAL				\$ 46,620

* Hourly wage includes fringe and benefits

Proposal Title: Rohner Creek Flood Control and Riparian Habitat Improvement Project**(f) Construction Administration**

	Number of Hours	Hourly Wage*	Contingency Amounts	Total Cost
<u>Task 17: Construction Administration</u>				
Senior Engineer	60	\$ 145		\$ 8,700
Civil Engineer	120	\$ 120		\$ 14,400
Structural Engineer	80	\$ 120		\$ 9,600
Construction Manager	200	\$ 180		\$ 36,000
Resident Project Representative	400	\$ 150		\$ 60,000
Drafting	140	\$ 100		\$ 14,000
Clerical Support	12	\$ 70		\$ 840
Senior Scientist	40	\$ 120		\$ 4,800
City Public Works Director	24	\$ 75		\$ 1,800
City Public Works Staff	200	\$ 40		\$ 8,000
Public Works Admin	10	\$ 30		\$ 300
TOTAL				\$ 158,440

* Hourly wage includes fringe and benefits

Proposal Title: Rohner Creek Flood Control and Riparian Habitat Improvement Project**(h) Construction/Implementation Contingency**

	Number of Hours	Hourly Wage*	Contingency Amounts**	Total Cost
<u>Task 14 Construction</u> Construction Contingency			\$ 1,191,500	\$ 1,191,500
TOTAL				\$ 1,191,500

* Hourly wage includes fringe and benefits

** Construction contingency of 25% included in project costs. This is a typical value given the project design stage.